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IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with <u>underlining</u> and deleted text with <u>strikethrough</u>. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND the claims as follows:

1. – 66. (cancelled)

67. (currently amended) An apparatus, comprising:

a virus scanner adapted to scan a file stored in a storage device for infection with a virus;
a quarantining device adapted to quarantine the file from non-infected files on the storage device, when the file is infected; and

a converting device adapted to prohibit use of the infected file based upon converting the infected file into encoded data by executing an encoding process that converts the infected file into another encoded data.

68.- 74. (cancelled)

75. (currently amended) An apparatus comprising:

a storage device adapted to store a plurality of files and a status for each of the files indicating whether each of the files is infected with a virus;

a virus checking device adapted to select a file to be checked for infection with a virus;
a quarantining device adapted to quarantine an infected file on the storage device; and
a converting device adapted to prohibit use of the infected file based upon converting the
infected file into encoded data by executing an encoding process that converts the infected file
into another encoded data.

76. - 78. (cancelled)

79. (currently amended) An apparatus, comprising:

<u>a storage device adapted to store a plurality of files and a status for each of the files indicating whether each of the files is infected with a virus;</u>

<u>a virus checking device adapted for selection of a file to be checked for infection with a virus; and </u>

a converting device adapted to prohibit use of an infected file based upon converting the infected file into encoded data by executing an encoding process that converts the infected file into another encoded data.

80.-83. (cancelled)

84. (currently amended) A method, comprising:

scanning a file for infection with a virus using a computer;

quarantining the file from non-infected files if the file is infected with a virus; and prohibiting use of the infected file by converting the infected file into encoded data by executing an encoding process that converts the infected file into another encoded data.

85.- 93. (cancelled)

94. (currently amended) A computer readable storage medium controlling a computer by:

scanning a file for infection with a virus;

quarantining the file if infected with a virus; and

prohibiting use of the infected file by converting the infected file into encoded data by executing an encoding process that converts the infected file into another encoded data.

95.- 108. (cancelled)

109. (currently amended) A method comprising:

scanning a file for infection with a virus using a computer;

isolating the file from non-infected files, if the file is infected with a virus; and prohibiting use of the infected file via converting the infected file into encoded data by executing an encoding process that converts the infected file into another encoded data.

110. - 144. (cancelled)

145. (currently amended) A method for performing an anti-virus operation, the method comprising:

detecting a virus-infected file in a storage device using a computer;

prohibiting use of the virus-infected file based upon converting the virus-infected file into encoded data; and

storing the encoded data of the virus infected file.

- 146. (previously presented) The method according to claim 145 further comprising: executing inverse conversion of said encoded data for restoring the virus-infected file.
- 147. (previously presented) The method according to claim 145 further comprising: registering virus information of the virus-infected file in an infection management table.
- 148. (previously presented) The method according to claim 147 further comprising: outputting the virus information for a virus analysis.
- 149. (previously presented) The method according to claim 145 wherein an operation of said detecting is activated periodically or activated in response to a command instruction.
- 150. (previously presented) The method according to claim 145 wherein the encoded data is stored in a different storage area from a storage area in which the virus-infected file was stored.
- 151. (previously presented) The method according to claim 145 wherein the encoded data is stored in a storage area which cannot be accessed readily.
- 152. (previously presented) The method according to claim 147, further comprising:

 deleting the virus information of the virus-infected file registered in the infection

 management table through an interactive process.
 - 153. (previously presented) The method according to claim 147 wherein the virus

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information contains a virus name and a storage location in which the virus-infected file was stored.

- 154. (new) A method for performing an anti-virus operation, the method comprising: detecting a virus-infected file using a computer; prohibiting use of the virus-infected file by encoding the virus-infected file; and storing the encoded virus infected file.
- 155. (new) A method for performing an anti-virus operation, the method comprising:

 detecting a virus-infected file in a storage device using a computer;

 converting the virus-infected file into encoded data; and

 storing the encoded data of the virus infected file,

 wherein the converting into the encoded data prohibits use of the virus-infected file.
- 156. (new) The method according to claim 155, wherein the use comprises executing.